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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/596,306	03/11/2009	Song-Hua Ke	100788.0023US	5169		
24392 FISH & ASSO	7590 02/07/2011 OCIATES, PC	EXAMINER				
ROBERT D. F	OBERT D. FISH			MYERS, CARLA J		
2603 Main Str Suite 1000	ect		ART UNIT	PAPER NUMBER		
Irvine, CA 926	514-6232		1634			
			NOTIFICATION DATE	DELIVERY MODE		
			02/07/2011	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

rfish@fishiplaw.com patents@fishiplaw.com

Office Action Summary

Application No.	Applicant(s)
10/596,306	KE ET AL.
Examiner	Art Unit
Carla Myers	1634

	Carla Myers	1634	
The MAILING DATE of this communication appr Period for Reply	ears on the cover	sheet with the correspondence add	dress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CPR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is ageodical above, the maximum statutory period we have a subject to the provision of	TE OF THIS CO 6(a). In no event, howe ill apply and will expire s cause the application to	MMUNICATION. ver, may a reply be timely filed SIX (6) MONTHS from the mailing date of this co become ABANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on		mal matters, prosecution as to the	merits is
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-20 are subject to restriction and/or e			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the c Replacement drawing sheet(s) including the cortect 11) The oath or declaration is objected to by the Examiner.	epted or b) objected or b) objected or b) objected on better on better or b	n abeyance. See 37 CFR 1.85(a). drawing(s) is objected to. See 37 CF	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some *c) None of: 1. Certified copies of the priority documents 2. Cortified copies of the priority documents 3. Copies of the certified copies of the priori	have been rece have been rece ity documents ha (PCT Rule 17.2)	ved. ved in Application No ve been received in this National (a)).	Stage
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-SB/08) Paper No(s)/Mail Date		nterview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application Other:	

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DETAILED ACTION

Sequence Compliance

1. In claims 5, 6, 8 16 and 18, the assigned SEQ ID NOs have not been used to identify each sequence listed, as required under 37 CFR 1.821(d). As set forth in 37 CFR 1.821(d) "Where the description or claims of a patent application discuss a sequence that is set forth in the 'Sequence Listing' in accordance with paragraph (c) of this section, reference must be made to the sequence by use of the sequence identifier, preceded by 'SEQ ID NO:' in the text of the description or claims, even if the sequence is also embedded in the text of the description or claims of the patent application." For the response to this Office action to be considered complete, Applicants are required to amend the claims (and specification) to recite the appropriate sequence identifier in place of, e.g., "Ax," "Bx" etc.

Election/Restrictions

2. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

the primers and nucleic acids of SEQ ID NO: "Ax," "Ay," "Bx," "By," "Cx" and "Cy" – i.e., SEQ ID NO: 1-72.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

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subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Claims 5 and 8-20 read on the species of SEQ ID NO: 1-48 Claims 6 and 8-20 read on the species of SEQ ID NO: 49-72

The following claim(s) are generic: claims 1-4 and 7.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The recited primers and nucleic acids differ from one another with respect to their nucleotide structure such that each primer/nucleic acid consists of a different nucleotide sequence, and with respect to their specificity of hybridization, such that the primers/nucleic acids hybridize with a different specificity to particular HPV types (see Table 1A). The primers and nucleic acids thereby have a different chemical structure and different biological activity and effect. Thus, the claimed primers and nucleic acids do not have both a "common property or activity" and a common structure as would be required to show that the inventions are "of a similar nature."

Additionally, the technical feature of a combination of two forward primers and two reverse primers for amplifying HPV sequences was known in the art at the time the

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invention was made. For example, Hirschhorn et al (PNAS. 2000. 97: 12164-12169; cited in the IDS) teach sets of primers for detecting sequence variation genotyping HPV sequences and methods of multiplex PCR to amplify nucleic acid sequences and detection of the amplified nucleic acid sequences using probes. Further, William et al (WO 02/103050; cited in the IDS) teaches type-specific primers and probes for detecting particular HPV genotypes. Accordingly, the technical feature linking the claimed invention of primers and probes for detecting HPV types was known in the art at the time the invention was made. Thereby, there is no special technical feature linking the claimed inventions.

In response to this Office action, Applicants are required to pick a specific combination of at least two forward primers selected from SEQ ID NO: 1-24, a combination of at least two reverse primers selected from SEQ ID NO: 25-48 (see claims 5 and 8) and a combination of at least two extension primers selected from SEQ ID NO: 49-72 (see claims 6 and 8). Applicants are also required to elect a nucleic acid to be examined with respect to claims 16-20. The elected nucleic acid must be commensurate with the elected primers. For example, if Applicants elect SEQ ID NO: 1, 2, 25, 26, 49 and 50, Applicants must elect one of these sequences to be examined with respect to claims 16-20. That is, Applicants may not elect, e.g., SEQ ID NO: 3 to be examined for claims 16-20 because such an election would not be commensurate with the elected combination of sequences.

Applicant is advised that the reply to this requirement to be complete must include (i)
 an election of a species or invention to be examined even though the requirement be

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traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carla Myers whose telephone number is 571-272-0747. The examiner can normally be reached on Monday-Thursday (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Nguyen can be reached on 571-272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Application/Control Number: 10/596,306 Page 6

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Carla Myers/

Primary Examiner, Art Unit 1634